# Kentucky Information Technology Standards (KITS)

**[Full KITS Report - Word Search](#)**

| EAS Code | EAS Category Name | Standard | KITS Category Code | KITS Domain > Area > Category | KITS Description | Approved Products | Date | |
|---|---|---|---|---|---|---|---|---|
| 3100 | Cable Plant | Category 6, unshielded twisted pair (UTP) copper cable up to a maximum of 295-feet; OR 8.3/125 micron single mode fiber cable; OR 50/125 micron multimode fiber optic cable<br>LC connectors | I02.003.302 | Network > Infrastructure > Transmission Medium | Transmission medium is the material and/or technology that carries signal from one location to another. | Systimax products with Corning fiber:<br>Systimax products with Corning fiber:<br>• Category 6, unshielded twisted pair (UTP) copper cable;<br>• OR 8.3/125 Single mode fiber cable;<br>• OR 50/125 Multimode fiber optic cable. | **Effective:** 7/1/1997<br>**Revised:** 12/1/2008<br>**Reviewed:** 6/17/2015 | |

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| 3110 | Cable Plant Installation | Cable plant installation based on current industry standards. The following are applicable:<br>• TIA/EIA-568-B.1-7 Commercial Building Telecommunications Wiring Standard and its appendix and all addendums<br>• TIA/EIA-568-B.2-11 Commercial Building Telecommunications Wiring Standard and its appendix and all addendums<br>• TIA/EIA-569-B Commercial Building Standard for Telecommunications Pathways and Spaces<br>• TIA/EIA-570-B Residential and Light Commercial Telecommunications Wiring Standard<br>• TIA/EIA-606 Administrative Standard for the Telecommunications Infrastructure of Commercial Building<br>• J-STD-607-A Commercial Building Grounding (Earthing) and Bonding Requirements for Telecommunications<br>• TIA/EIA-758-A Customer Owned Outside Plant Telecommunications Infrastructure Standard<br>• TIA/EIA-526-7 Measurement of Optical Power Loss of Installed Single-Mode Fiber Cable Plant<br>• TIA-EIA-526-14-A Optical Power Loss Measurements of Install Multimode fiber Cable Plant<br>• TIA/EIA-568-3-3.1 Optical Fiber Cabling Components Standard<br>• TIA/EIA-598-C Optical fiber Cable Color Code<br>• TIA-758-A Customer Owned Outside Plant Telecommunications Infrastructure<br>• National Electric Code<br>• National Electric Safety Code<br>• ASTM E814 Fire Stopping<br>• ISO/IEC 11801: 2002/AMD 1<br>• TSB 162 Telecommunications Cabling Guidelines for Wireless Access Points<br>• TIA-942 Telecommunications Infrastructure Standard for Data Centers | I02.003.302 | Network > Infrastructure > Transmission Medium | Transmission medium is the material and/or technology that carries signal from one location to another. | | **Effective:** 7/7/1997<br><br>**Revised:**<br><br>**Reviewed:** 6/17/2015 |

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| 3110 | | • IEEE 802.3 Ethernet<br>• IEEE 802.11 b/g/n WLAN<br>• IEEE 802.16 WiMax<br>• TIA-1003 Requirements for a Wireless LAN Based IP Telephony Endpoint | | | | | | |
| 3200 | Network Protocols | TCP/IP - the only protocol supported by the Commonwealth Office of Technology after December 31, 1998. For details, see the Agency Contact Memo at Agency Contact Memo 9707-01 Ethernet - LAN topology | I02.004.409 | Network > Transmission Type > Transmission Protocol | Transmission Protocol is a category that allows grouping and identification of various transmission standards, at a basic level in the OSI stack. | | **Effective:** 7/1/1997<br>**Revised:** 12/1/2008<br>**Reviewed:** 6/17/2015 | |
| 3300 | Network Hardware Components: Routers, Hubs, Remote Access, CSU/DSU, NICS, Modems | • SNMP compliant<br>• Modems: 56 Kbps v.92, International Telecommunications Union (ITU) data transmission standard<br>• Ethernet NIC cards at 100Mbps/1Gps/10Gps<br>• Wireless LAN installations must adhere to Enterprise IT Policy CIO-078 (Wireless LAN Policy). | I02.003.301 | Network > Infrastructure > Hardware and Software | Specifically for Networks, Hardware and Software refers to many different kinds of devices and their firmware. These devices provide many things including routing, security, etc. The software included here is the firmware and/or Operating System (OS) associated with specific network devices. | Routers/Switches:<br>• Avaya Networks<br><br>Wireless Data Networking:<br>• Avaya Networks<br>Virtual Private Networks:<br>• Avaya Networks<br>• NetMotion<br><br>Load Balancing:<br>• F5 Networks | **Effective:** 7/1/1997<br>**Revised:** 6/17/2015<br>**Reviewed:** 6/17/2015 | |

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| 3440 | Video Conferencing | ITU-T Standards supported:<br>• H.320, H.323, G.711, G.722, G.728, H.221, H.261, H.263, H.264, H.239, H.460, 18 & 19<br>Video Standards and Protocols, Algorithms and resolutions (pixels x lines):<br>• ITU-T H.261<br>• QCIF<br>• 4SIF<br>• SVGA<br>• UXGA<br>• ITU-T H.263++<br>• SIF<br>• FCIF<br>• SXGA<br>• 720p<br>• ITU-T H.264<br>• CIF<br>• VGA<br>• WXGA/+<br>• 1080p<br>• Frame rate: 5-30 frames per second<br>Audio Resolution:<br>• G.711, G.722, G.722.1, 64 bit & 128 bit MPEG4 AAC-LD, AAC-LD Stereo<br>Monitor Outputs:<br>• S-Video, Composite, HD15, HDMI, DVI-I, Component<br>Camera Inputs:<br>• S-Video, Composite, HD15, HDMI, DVI-I, Component<br>• Video format: NTSC<br>Broadcast Standards:<br>• NTSC<br>Audio Conferencing:<br>• Omnidirectional pickup; push-to-talk (cardoid/super-cardoid) or omnidirectional, automatic microphone level adjustment; full duplex audio, full duplex, adaptive acoustic echo canceling<br>Communications Protocols:<br>• ITU-T H.221<br>Interfaces:<br>• 10/100/1000 Full Duplex Ethernet<br>Transmission Rates: | I02.004.405 | Network > Transmission Type > Video Conferencing | Videoconferencing is the conduct of a videoconference (also known as a video conference or video teleconference) by a set of telecommunication technologies which allow two or more locations to communicate by simultaneous two-way video and audio transmissions. It has also been called 'visual collaboration' and is a type of groupware. | • Cisco TelePresence (formerly Tandberg)<br>DX80 23"monitor desktop BFCP dual stream  WIFI Android OS- 1080p cam<br>Touch screen interface<br><br>DX70 14"monitor desktop BFCP dual stream  WIFI Android OS w/ 8mp cam<br>Touch screen interface<br><br>SX80 1080P@60 fps 4x or 20x camera. Avail w/ speaker tracking dual cameras and 10" touch screen control<br><br>SX20 1080p with 3 camera options<br><br>SX10 economy unit with 5x camera<br><br>• Polycom<br><br>RealPresence Group system 300/500 Small<br>Room system<br><br>HDX7000 720p with 12x Camera<br><br>See also Category for Desktop Video Conferencing. | **Effective:** 10/21/2009<br><br>**Revised:** 6/17/2015<br><br>**Reviewed:** 6/17/2015 | |

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| 3440 | | • 384 Kbps | | | | | |
| 3450 | Desktop Video Conferencing | ITU-T Standards supported:<br>• G.711, G.722, G.728, H221, H261, H263<br>Video Standards and Protocols, Algorithms and resolutions (pixels x lines):<br>• T.120 standard for data collaboration<br>Video Decoding:<br>• up to 30 fps (frames per second)<br>Video Encoding:<br>• up to 22 fps<br>Interfaces:<br>• ISDN or IP (H.323 or SIP) | I02.004.405 | Network > Transmission Type > Video Conferencing | Videoconferencing is the conduct of a videoconference (also known as a video conference or video teleconference) by a set of telecommunication technologies which allow two or more locations to communicate by simultaneous two-way video and audio transmissions. It has also been called 'visual collaboration' and is a type of groupware. | Cisco TelePresence (formerly Tandberg):<br>• Movi<br>Microsoft Lync<br> - 2010 Version: Mainstream support slated to end 4/12/2016; Extended support slated to end 4/13/2021.<br>Office Communications Server (OCS) 2007 Mainstream support slated to end 1/8/2013; Extended support slated to end 1/9/2018. | **Effective:** 7/1/1997<br><br>**Revised:** 6/17/2015<br><br>**Reviewed:** 6/17/2015 |
| 3460 | Web Video / Audio Conferencing / Collaboration | | I02.004.404 | Network > Transmission Type > Web Conferencing | Web conferencing refers to a service that allows conferencing events to be shared with remote locations. In general the service is made possible by Internet technologies, particularly on TCP/IP connections. The service allows real-time point-to-point communications as well as multicast communications from one sender to many receivers. It offers information of text-based messages, voice and video chat to be shared simultaneously, across geographically dispersed locations. Applications for web conferencing include meetings, training events, lectures, or short presentations from any computer. | • Citirx (GoToMeeting, GoToWebinar, GoToTraining)<br>• Elluminate<br>• iLinc<br>• Microsoft Lync  2010 version: Mainstream support slated to end 4/12/2016; Extended support slated to end 4/13/2021.<br>• Office Communications Server (OCS) 2007 | **Effective:** 12/11/2009<br><br>**Revised:** 6/17/2015<br><br>**Reviewed:** 6/17/2015 |

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| 3505 | Network Services – Electronic Commerce and Payments | eMARS ePay (via the Link-to-Gov contract) is the approved enterprise electronic commerce facility for credit card payments via the internet. This full service facility includes account creation, merchant bank services, secure transactions, processing of credit card payments, authorization and settlement. Agency Contact Memo 9903-03 describes the pilot, contract and the e-commerce workflow. | A01.004.021 | System > Financial Management > Accounts Receivable | Software that supports collections and receivables, including deposits, fund transfers, and receipts for sales or service. | All approved web browser products that support SSL encryption | **Effective:** **Revised:** **Reviewed:** | 6/1/1999 6/17/2015 6/17/2015 |
| 3510 | Network Services – Internet/ Intranet Web Server | World Wide Web Consortium (W3C) standards | I01.002.202 | Platform > Operating System > Server – Midrange | A midrange computer operating system is, in simplest terms, a collection of programs that manage a computer system's internal workings - its memory, processors, devices, and file system. Midrange computers are almost universally known as servers to recognize that they often "serve" applications to end users at "client" computers, that they use a client/server computing model. | • Apache Tomcat • Microsoft Internet Information Server (version 6 or later) • WebSphere Web Server (both z/OS and UNIX) | **Effective:** **Revised:** **Reviewed:** | 7/1/1997 3/20/2009 6/17/2015 |

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| 3511 | Network – Internet/ Intranet - Web Browser | World Wide Web Consortium (W3C) standards | A02.032.402 | Application Components > Web Access > Web Browser | Software used to locate, retrieve and also display content on the World Wide Web, including web pages, images, video and other files. | • Microsoft Internet Explorer:<br>- IE 10<br>- IE 9<br>IE 9 and IE 10 are NOT compatible with Windows XP.<br>- IE 8<br>- IE 7<br>Enterprise applications* HAVE been verified IE 10, IE9, IE 8 and IE 7 compliant. Agencies are advised to verify their own applications and tools sets work with IE 10, IE 9, IE 8 or IE 7 before recommending an upgrade for their staff.<br>• Mozilla Firefox Only versions currently supported by Mozilla are authorized for new installation.<br>• Google Chrome<br>For maximum security, and to take advantage of advanced client software and web site functions and features, the latest browser release should be installed and used where feasible.<br>* Enterprise Applications: eMARS, KBUD | **Effective:** 7/1/1997<br><br>**Revised:** 2/17/2015<br><br>**Reviewed:** 6/17/2015 | |

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| 3520 | Network Services – Mainframe Access | | A03.040.010 | Interface > Application Interface > API | Source code based specification intended to be used as an interface by software components to communicate with each other. An application programming interface (API) may include specifications for routines, data structures, object classes, and variables (e.g., per Wikipedia). | DOS and Windows workstations:<br>• BlueZone by Rocket Software<br>• MochaSoft<br>• IBM Personal Communications<br>• IBM WebSphere Host On-Demand<br><br>Mainframe File Transfer:<br>• BlueZone by Rocket Software<br>• MochaSoft<br>NOTE: AttachMate is no longer supported. | **Effective:** 7/1/1997<br><br>**Revised:** 6/17/2015<br><br>**Reviewed:** 6/17/2015 | |
| 3550 | Network Services – Storage Area Networks | | I01.005.503 | Platform > Virtualization > Storage | Storage virtualization applies virtualization concepts to enable better functionality and more advanced features within the storage system. Storage systems use special hardware and software along with disk drives in order to provide very fast and reliable storage for computing and data processing. | • EMC<br>• HP<br>• IBM<br>• Netapp | **Effective:** 12/20/1999<br><br>**Revised:** 4/25/2013<br><br>**Reviewed:** 6/17/2015 | |

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| 3600 | Network Management | Simple Network Management Protocol – SNMP (Version 2 and above) | A01.012.080 | System > Systems Management > Fault management | Software that detects, isolates, and corrects malfunctions in a telecommunications network and compensates for environmental changes. This includes maintaining and examining error logs, accepting and acting on error detection notifications, tracing and identifying faults, carrying out sequences of diagnostics tests, correcting faults, reporting error conditions, and localizing and tracing faults by examining and manipulating database information. | For UNIX and Windows:<br>• Avaya Unified Communications Management (UCM)<br>• BMC ProactiveNet Performance Management Solution<br>• Cacti<br>• HP Network Management System<br>• Microsoft System Center Operations Manager (SCOM)<br>• Nagios<br>• What's Up Gold (Ipswitch) | **Effective:** 7/1/1997<br><br>**Revised:** 2/15/2012<br><br>**Reviewed:** 6/17/2015 | |
| 3650 | Content Delivery Network | Support forward and reverse proxy of the following IP protocols:<br>• HTTP<br>• FTP over HTTP<br>• FTP over TCP<br>• FTPS (for mainframe file transfer)<br>• HTTPS (secure transport)<br>• NNTP<br>• MMS<br>• TSPard<br>• ICAP<br>Support for a variety of streaming media formats including MMS (Microsoft Windows Media) and RTSP (RealNetworks Media streaming) Authentication using Active Directory Flexibility that offers server-based or appliance solutions | I01.003.301 | Platform > Communications Hardware > Network Interface Device | For the purposes of the IRM, a Network Interface Device is a broad term that includes devices that serve as a demarcation point between the carrier's local loop and the customer's on-premises wiring, where the data wires end and a customer's premise wiring starts, and network interface controllers (also known as a network interface card, network adapter, LAN adapter and by similar terms) which may be internal or external to a piece of computer hardware. | • Network Appliance<br>• Microsoft Forefront Threat Management Gateway (formerly Microsoft Internet Security and Acceleration (ISA) Server) – replaces Microsoft Proxy Server. A software-based solution that runs on approved Microsoft server OS platforms only. | **Effective:** 10/1/2003<br><br>**Revised:** 1/19/2011<br><br>**Reviewed:** 6/17/2015 | |